

ABSTRACT OF THE DISCLOSURE

A 3-dimensional image acquisition apparatus
acquires images to be used for 3-dimensionally
reconstructing an object by picking up the object by
5 a camera twice or more in an image acquisition set
including picking up at least once the object carrying
a pattern projected onto it by a projection light
source. The apparatus comprises a light projection
information memory configured to store information on
10 projection of light including information on the time
for projecting light for the purpose of projecting
the pattern in the image acquisition set, an image
acquisition progress information memory configured to
store information on the progress of image acquisition
15 in the image acquisition set, and a controller
configured to control the projection of light by the
projection light source and the picking up by the
camera on the basis of the stored information on
projection of light and the stored information on the
20 progress.